

Horticultural and Industrial Users Recycled Water Quality Report

North City Water Reclamation Plant (NCWRP)

July-2025

	Symbol	Unit of Measurement	Recycled Water Permit Limit ³	NCWRP Recycled Water
Alkalinity	CaCO ₃	mg/L	-----	101
Hydrogen Ion Activity	pH	Units	6.5 - 8.5	7.05
Electrical Conductivity	ECw	umhos/cm	-----	1490
Total Dissolved Solids	TDS	mg/L	1,200	885
Calcium	Ca	mg/L	-----	75.0
Magnesium	Mg	mg/L	-----	31.5
Potassium	K	mg/L	-----	20.1
Sodium	Na	mg/L	-----	180
Sulfate	SO ₄	mg/L	300	190
Iron	Fe	mg/L	0.3	0.0477
Zinc	Zn	mg/L	-----	0.0148
Manganese ⁵	Mn	mg/L	0.1	0.0943
Boron	B	mg/L	0.75	0.250
Ammonia - Nitrogen	NH ₃ -N	mg/L	-----	ND
Nitrate as N	NO ₃ -N	mg/L	-----	20.0
Total Nitrogen (Actual)	N	mg/L	-----	22.0
Phosphorus	P	mg/L	-----	1.53
Chloride	Cl	mg/L	300	240
Total Nitrogen (Actual)	N	lbs/ acre ft ⁴	-----	59.8
Phosphorus Pentoxide ¹	P ₂ O ₅	lbs/ acre ft ⁴	-----	9.57
Potassium Oxide ²	K ₂ O	lbs/ acre ft ⁴	-----	65.6
Residual Sodium Carbonate	RSC	meq/L	<1.25**	-4.56
Adjusted Sodium Adsorption Ratio	SAR	Calculated	-----	4.32

¹Determined as Phosphorus in the elemental form (P); Phosphorus Pentoxide (P₂O₅) calculated by multiplying P by 2.3.

²Determined as Potassium in the elemental form (K); Potassium Oxide (K₂O) calculated by multiply K by 1.2.

³SDRWQCB Order #R9-2015-0091

⁴This value is presented in lbs/acre-ft of water applied 1 mg/L = 2.719 lbs/ac ft

⁵Compliance for Manganese is based on the annual average value.

* 1mg/L = 1ppm

----- = No Permit Limits

** Not a limit of permit SDRWQCB Order #R9-2015-0091